



Water-Data Report NV-2005

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

HUMBOLDT RIVER BASIN, LOWER HUMBOLDT RIVER BASIN

LOCATION.--Lat 40°28'03", long 118°18'24" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank, 1,100 ft downstream from Rye Patch Dam, 1.5 mi northwest of Rye Patch, and at mi 49.45 above Derby Road bridge.

DRAINAGE AREA.--16,100 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jan 1896 to Jun 1898, Jun 1899 to Dec 1909, Sep 1910 to Jun 1917, Sep 1917 to Sep 1922, Sep 1924 to Sep 1930 (fragmentary), Oct 1930 to Sep 1932, Oct 1935 to Sep 1941, Oct 1943 to current year. Prior to Oct 1935, published as "Near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area; WDR-NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,070 ft, above National Geodetic Vertical Datum of 1929 from topographic map. Prior to Oct 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi downstream at different datum. Oct 1, 1935, to Oct 13, 1945, water-stage recorder at site 0.5 mi upstream at different datum. Oct 14, 1945, to Apr 9, 1991, water-stage recorder at site 75 ft downstream at datum 5.00 ft higher. Apr 9, 1991 to Sep 30, 1998, water-stage recorder at site 100 ft upstream on opposite bank, at same datum.

REMARKS.-- Records fair except estimated daily discharges, which are poor. Flow regulated by Rye Patch Reservoir (station 10334500) since 1936. Records not adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 3,050 ft³/s, May 12, 1897, gage height, 12.0 ft, (datum then in use); maximum discharge after dam completed, 7,960 ft³/s, May 28, 1984, gage height, 13.65 ft (datum then in use); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,110 ft³/s, Jun 25, gage height, 10.73 ft; minimum daily discharge, 0.07 ft³/s, on several days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.08	0.32	0.09	0.24	e0.20	0.12	0.78	452	1,840	1,640	679	493
2	0.08	0.35	0.09	0.20	e0.10	0.14	0.95	462	1,890	1,640	595	500
3	0.36	0.23	0.09	0.18	0.09	0.14	0.85	505	1,990	1,640	512	486
4	0.19	0.14	0.09	0.21	e0.10	0.12	0.91	535	1,960	1,640	558	486
5	0.26	0.26	0.10	0.29	e0.10	0.11	1.1	606	1,860	1,480	561	539
6	0.36	0.42	0.13	0.34	e0.10	0.16	168	543	1,740	1,050	542	520
7	0.47	0.60	0.12	0.40	e0.10	0.21	135	409	1,850	823	453	501
8	0.57	0.66	0.14	0.36	0.11	0.24	96	415	1,790	829	429	463
9	0.52	0.60	0.09	0.30	0.07	0.20	114	334	1,780	835	410	488
10	0.34	0.55	0.08	0.35	0.07	0.16	174	335	1,800	842	429	507
11	0.39	0.79	0.07	0.45	0.09	0.22	214	334	1,820	646	418	423
12	0.37	0.61	0.07	0.42	0.13	0.20	267	348	1,840	446	350	424
13	0.33	0.65	0.08	0.34	0.14	0.14	299	344	1,860	450	325	444
14	0.42	0.99	0.09	0.27	0.16	0.19	276	314	1,880	365	381	479
15	0.49	1.1	0.09	0.27	0.09	0.24	281	353	1,910	330	382	404
16	0.59	1.5	0.09	0.24	0.07	0.24	295	375	1,970	317	374	267
17	0.83	1.6	0.09	0.31	0.08	0.24	304	347	1,980	225	360	263
18	0.72	1.6	0.09	0.32	0.10	0.29	311	372	1,900	230	370	273
19	0.87	1.2	0.10	0.35	0.09	0.43	342	385	1,870	277	376	299
20	0.95	0.81	0.09	0.43	0.08	0.39	378	366	1,870	328	323	269
21	0.64	0.63	0.10	0.34	0.08	0.40	452	391	1,870	339	299	273
22	0.64	0.64	0.11	0.27	0.07	0.67	474	486	1,930	406	298	198
23	0.76	0.45	0.13	0.30	0.07	0.44	434	539	2,020	372	241	236
24	0.65	0.38	0.13	e0.30	0.08	0.40	480	583	2,090	398	304	218
25	0.77	0.33	0.17	0.29	0.09	0.40	511	772	2,090	418	439	129
26	0.93	0.10	0.19	0.24	0.10	0.46	529	987	2,050	456	460	190
27	0.40	0.11	0.18	0.29	0.12	0.62	509	1,030	2,030	530	382	142
28	0.32	0.09	0.18	1.1	0.13	0.55	493	1,070	1,920	540	372	165
29	0.27	0.09	0.19	0.48	---	0.57	445	1,100	1,830	632	397	248
30	0.25	0.08	0.21	e0.40	---	0.51	412	1,130	1,770	680	397	236
31	0.30	---	0.23	e0.30	---	0.59	---	1,370	---	679	419	---
Total	15.12	17.88	3.70	10.58	2.81	9.79	8,397.59	17,592	57,000	21,483	12,835	10,563
Mean	0.49	0.60	0.12	0.34	0.10	0.32	280	567	1,900	693	414	352
Max	0.95	1.6	0.23	1.1	0.20	0.67	529	1,370	2,090	1,640	679	539
Min	0.08	0.08	0.07	0.18	0.07	0.11	0.78	314	1,740	225	241	129
Ac-ft	30	35	7.3	21	5.6	19	16,660	34,890	113,100	42,610	25,460	20,950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	106	35.2	41.3	65.1	60.8	157	435	627	566	447	264	156
Max	430	366	979	1,310	1,142	2,206	3,579	6,215	4,981	1,983	990	716
(WY)	(1999)	(1999)	(1984)	(1984)	(1984)	(1983)	(1984)	(1984)	(1984)	(1984)	(1995)	(1995)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.14	104	22.8	1.54	0.42	0.12
(WY)	(1936)	(1936)	(1936)	(1936)	(1936)	(1937)	(1991)	(1955)	(1961)	(1991)	(1961)	(1992)

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	Calendar Year 2004		Water Year 2005		Water Years 1936 - 2005	
Annual total	26,270.85		127,930.47			
Annual mean	71.8		350		248	
Highest annual mean					2,004	1984
Lowest annual mean					29.2	1955
Highest daily mean	540	Jun 29	2,090	Jun 24	7,840	May 29, 1984
Lowest daily mean	0.07	Dec 11	0.07	Dec 11	0.00	Oct 1, 1935
Annual seven-day minimum	0.08	Dec 9	0.08	Feb 19	0.00	Oct 1, 1935
Maximum peak flow			2,110	Jun 25	7,960	May 28, 1984
Maximum peak stage			10.73	Jun 25	13.65	May 28, 1984
Annual runoff (ac-ft)	52,110		253,800		179,400	
10 percent exceeds	238		1,230		571	
50 percent exceeds	1.2		1.1		101	
90 percent exceeds	0.15		0.10		0.14	